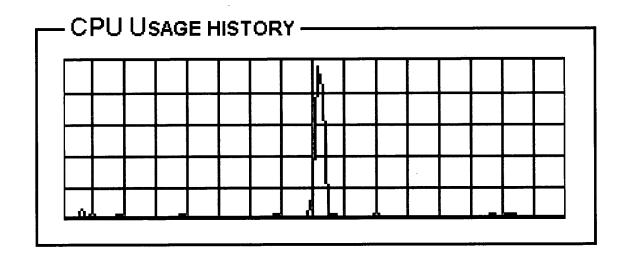
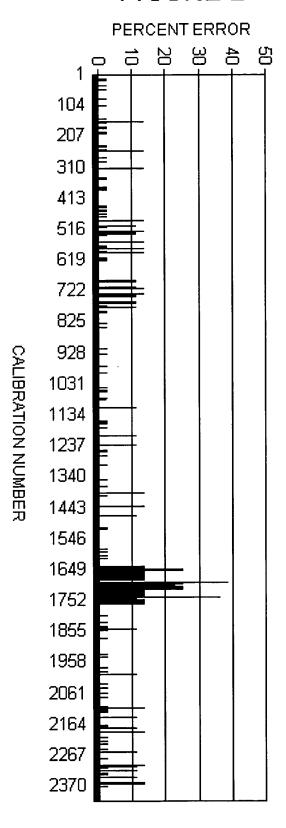


# FIGURE 1



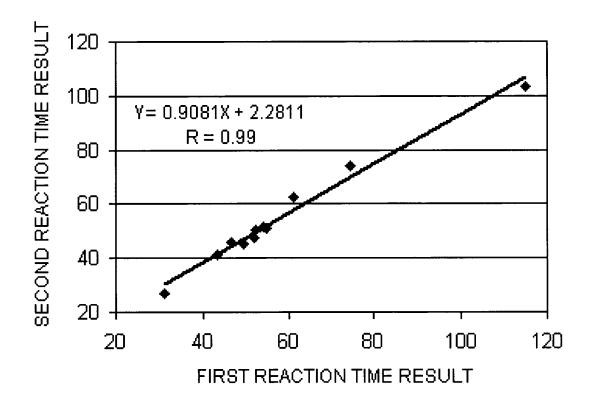
+

# FIGURE 2





# FIGURE 3



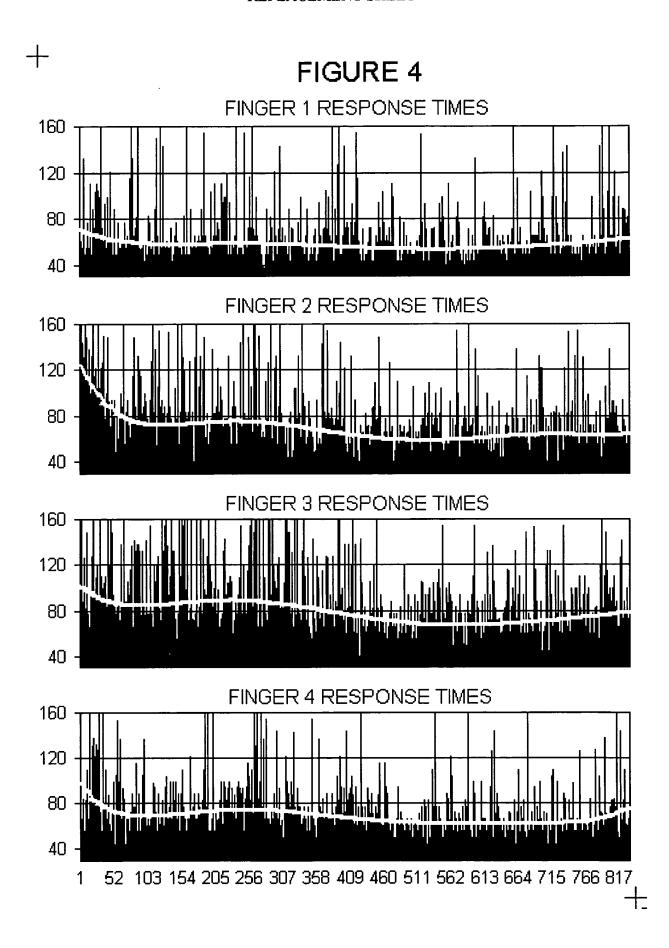
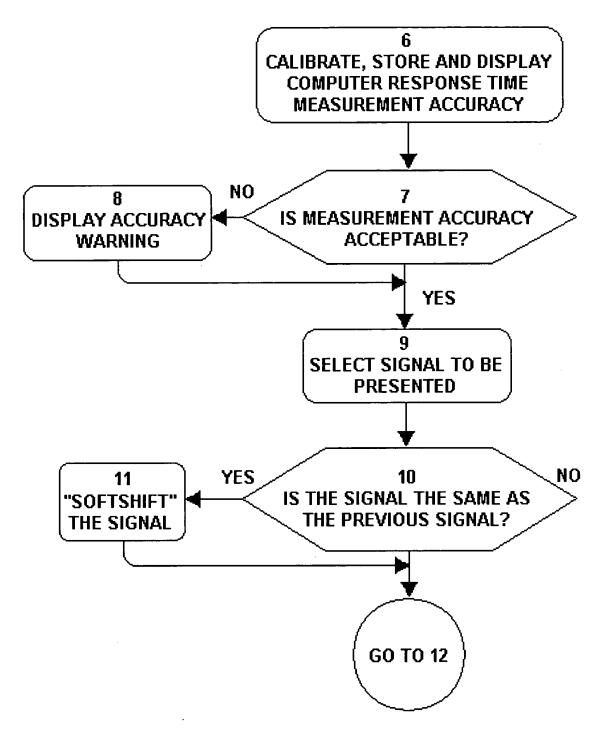


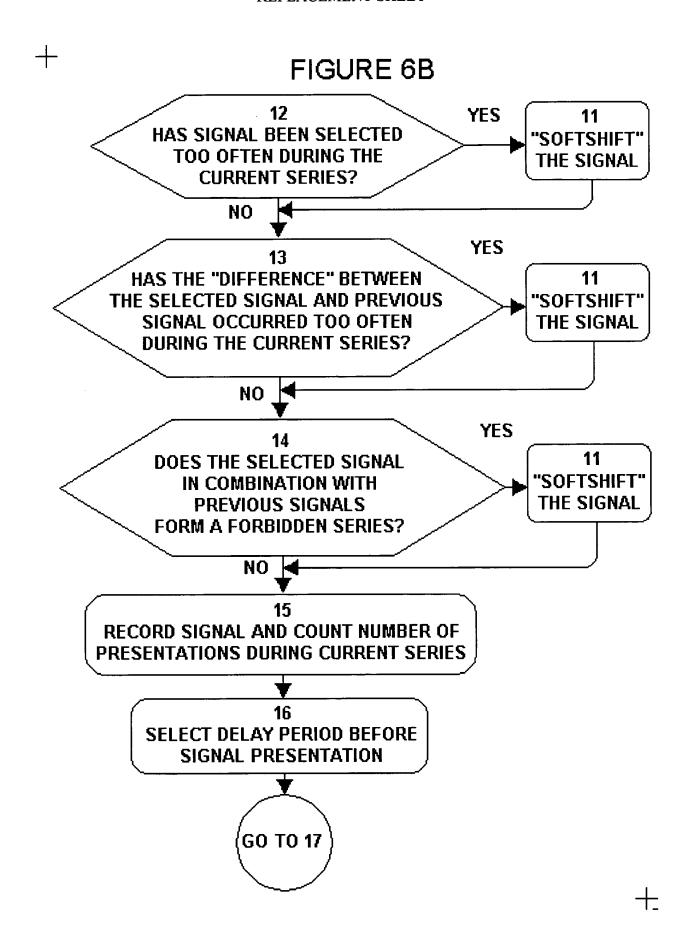
FIGURE 5 **BEFORE BEGIN IS PRESSED: DISPLAY INSTRUCTIONS COLLECT INFORMATION ABOUT HEALTH,** DIET, MEDICATIONS, LIFE EVENTS AND ANY OTHER INFORMATION THAT MAY BE RELATED TO COGNITIVE PERFORMANCE 3 **CACHE ALL POSSIBLE SIGNALS** SO ANY SIGNAL CAN BE PRESENTED VIRTUALLY INSTANTLY SET ALL PARAMETERS TO INITIAL VALUES PROCESS PREVIOUSLY STORED INFORMATION FOR RAPID "ON THE FLY" COMPARISON WITH INFORMATION TO BE OBTAINED DURING THE PRESENT SESSION **GO TO 6** 

+

## FIGURE 6A

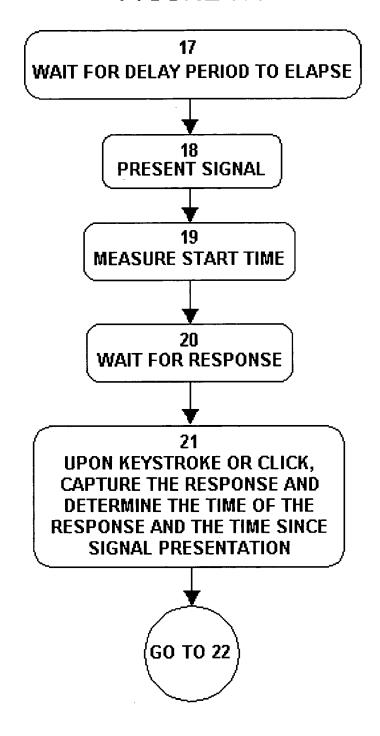
#### WHEN BEGIN IS PRESSED:

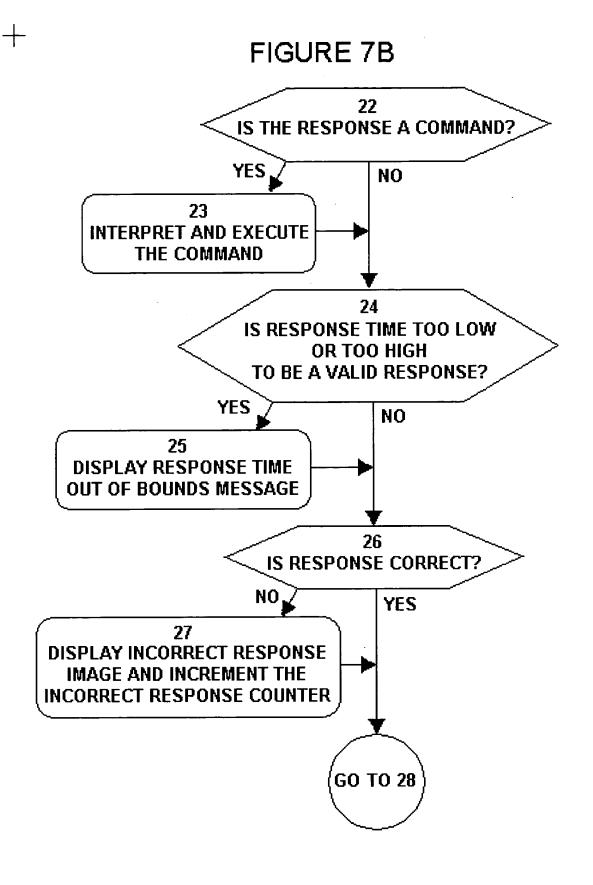






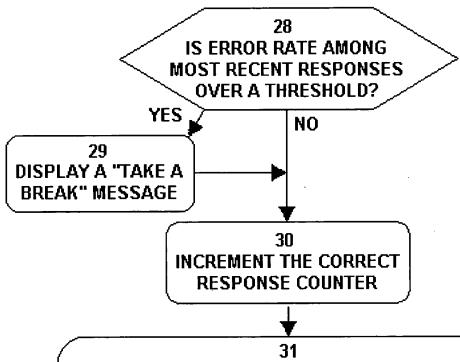
# FIGURE 7A





#### +

#### FIGURE 7C



COMPUTE AND DISPLAY RESPONSE TIME,
RESPONSE TIME AVERAGE FOR CURRENT SERIES,
ERROR TOTAL AND RATE FOR CURRENT SERIES,
DIFFERENCE BETWEEN PREVIOUS AND CURRENT
RESPONSE TIMES AND ERROR TOTALS AND RATES,
AND AVERAGE MEASUREMENT ACCURACY FOR
THE CURRENT SERIES AND DIFFERENCE BETWEEN
CURRENT AND PREVIOUS ACCURACY RESULTS



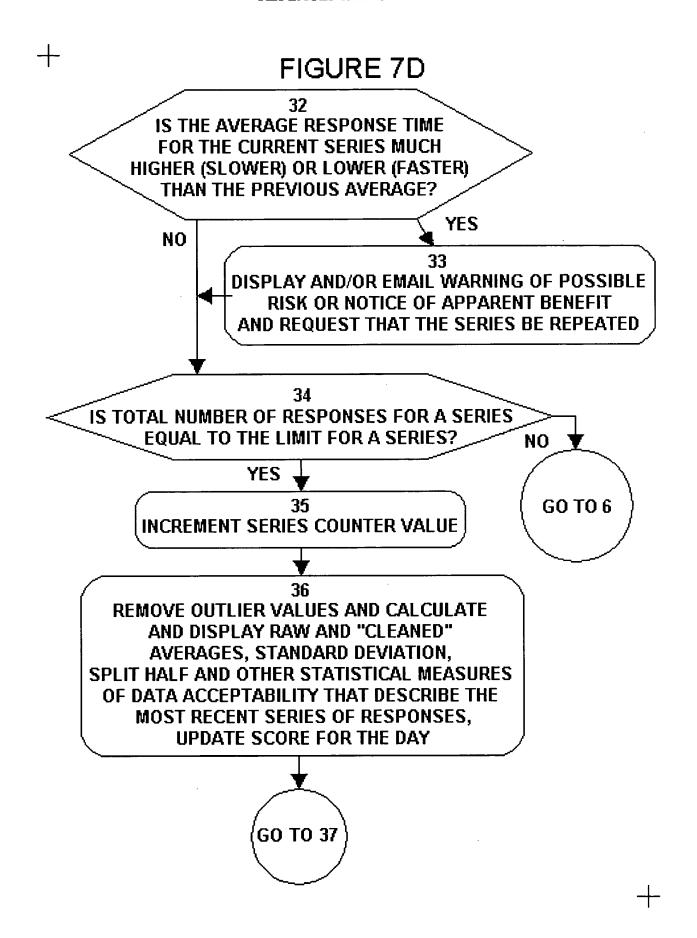
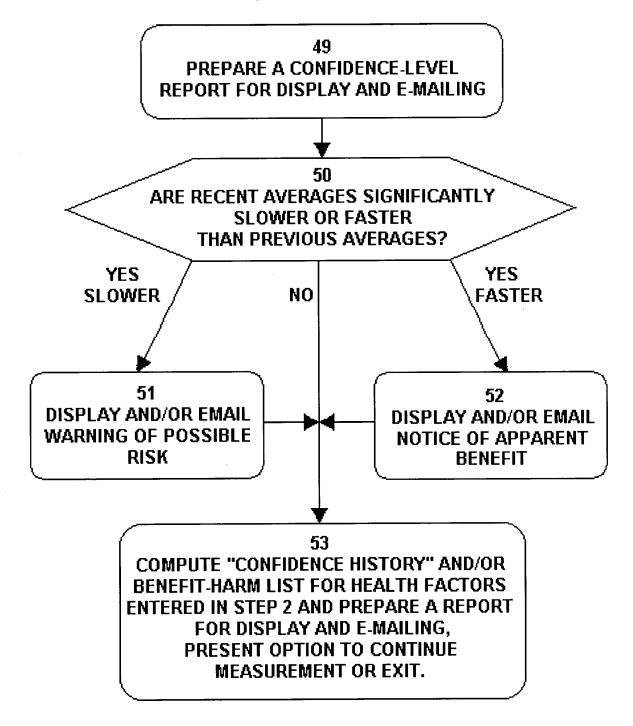


FIGURE 8A 37 STORE ALL DESIRED RAW AND DERIVED RESULTS AS COOKIES AND/OR **CENTRAL DATABASE ENTRIES** 38 IS THE MOST RECENT SERIES ACCEPTABLE, BORDERLINE OR UNACCEPTABLE? BORDERLINE UNACCEPTABLE ACCEPTABLE 40 39 DISPLAY APPROPRIATE DISPLAY APPROPRIATE MESSAGE AND REQUEST THAT THE SERIES BE REPEATED. MESSAGE 41 IS THE CORRECT SERIES TOTAL PRIOR TO YES COMPREHENSIVE RESULTS ANALYSIS AND GRAPHING EQUAL TO THE REQUIRED LIMIT? NO GO TO 43 42 **SAVE AND THEN INITIALIZE** WITHIN-SERIES COUNTERS **GO TO 6** 

FIGURE 8B 43 DISPLAY GRAPH OF PREVIOUS AND LATEST RESPONSE TIME AND ERROR AND MEASUREMENT ACCURACY RESULTS ALONG WITH OTHER RECORDED INFORMATION ABOUT DIET, HEALTH AND LIFE EVENTS 44 DISPLAY STANDARD DEVIATION OR OTHER MEASURES OF VARIABILITY FOR MOST RECENT RESPONSE AVERAGES 45 IS (ARE) MEASURE(S) OF VARIABILITY AMONG RECENT RESPONSE AVERAGES ACCEPTABLE? **MAYBE** NO YES 46 47 **DISPLAY APPROPRIATE** DISPLAY APPROPRIATE MESSAGE AND MESSAGE(S) REQUEST THAT SERIES BE REPEATED 48 ANALYZE PROBABILITY THAT MOST RECENT RESPONSE AVERAGES ARE SIGNIFICANTLY DIFFERENT FROM PREVIOUS AVERAGES GO TO 49

## FIGURE 8C



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